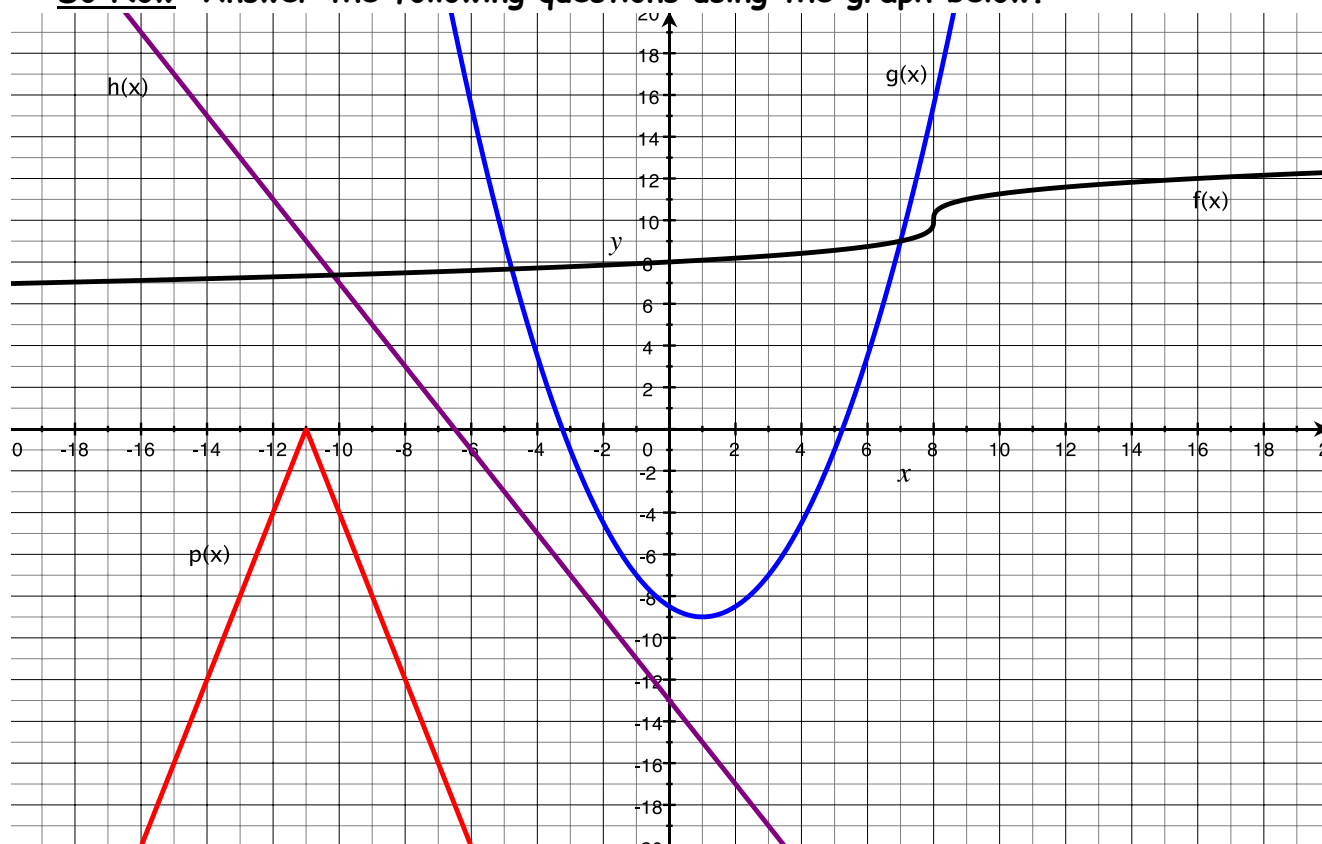


Name: \_\_\_\_\_

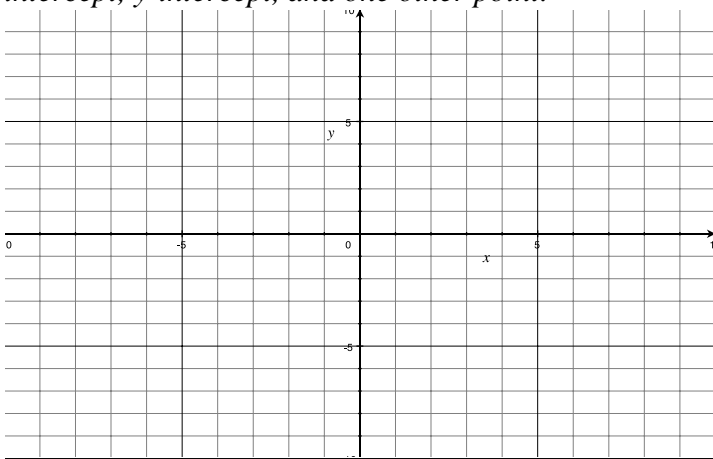
**Do Now:** Answer the following questions using the graph below.a. Find  $f(8)$ .d. Find  $x$  when  $h(x) = 11$ b. Find  $g(-1)$ e. Find  $x$  when  $g(x) = 9$ c. Find  $h(0)$ f. Find  $x$  when  $p(x) = 0$

Name: \_\_\_\_\_

Unit 1 Lesson 1: Introduction to Linear Functions with Function Notation

Objective: \_\_\_\_\_

1. Guided Practice: Properties of Linear Functions and Function Notation

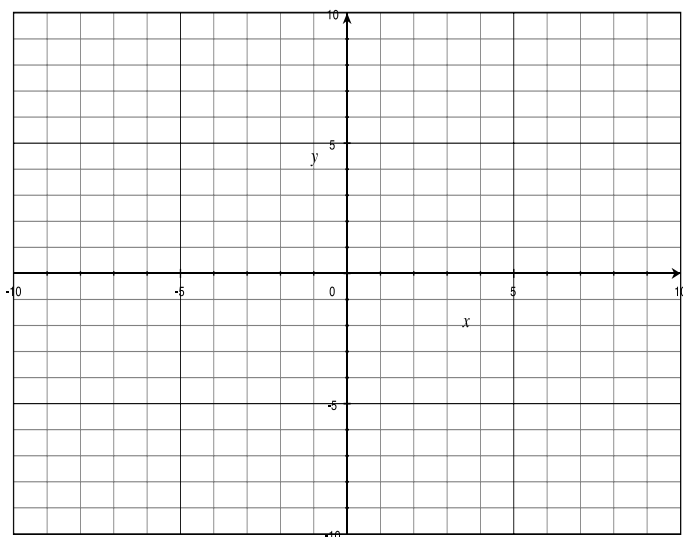
Algebraic	Graphical										
<p>Mark up the following function by finding properties that will help you graph the function.</p> $f(x) = -\frac{1}{3}x + 5$	<p>Represent the function graphically. Label your x-intercept, y-intercept, and one other point.</p> 										
Numerical Table	Communication										
<p>Represent four points of the function using a numerical table.</p> <p>Numerical Table</p> <table><tr><td>x</td><td></td><td></td><td></td><td></td></tr><tr><td>f(x)</td><td></td><td></td><td></td><td></td></tr></table>	x					f(x)					<p>Analyze the function by answering the following questions <u>with a partner</u>. You may <u>edit</u> your answers in a different color during the class discussion. What <u>type of function</u> is f(x)? Explain.</p> <ol style="list-style-type: none"><li>1. What is the slope of the function?</li><li>2. Is this function <u>increasing</u>, <u>decreasing</u>, or <u>constant</u>? Explain.</li><li>3. What is the <u>y-intercept</u> of the function, in function notation?</li><li>4. Explain at least two ways can find the y-intercept of a function.</li><li>5. What is the <u>x-intercept</u> of the function, in function notation?</li><li>6. Explain at least two ways how you can find the x-intercept of a function.</li></ol>
x											
f(x)											

Algebra 2 CP Unit 1 Lesson 1

**2. Group Practice:** Answer all of the following questions within your group. You do not necessarily need to answer the questions in the order given. Use your problem solving skills.

Given the following function,  $f(x) = -5 - \frac{4}{3}x$ , answer the following questions.

1. Find  $f(-3)$ . Write as a coordinate point.
2. Find  $x$  when  $f(x) = 1$ . Write as a coordinate point.
3. Find the slope of the function.
4. Find the  $y$ -intercept of the function and write the  $y$ -intercept as a coordinate point.
5. Find the  $x$ -intercept of a function and write the  $x$ -intercept as a coordinate point.
6. Graph the function on the coordinate plane below. Make sure your that your answers for 1-5 make sense according to your graph. Label the  $x$  and  $y$  intercepts.



**Algebra 2 Homework:** Make corrections to incomplete or incorrect classwork.